

METHODS AND APPARATUS FOR DEMODULATION OF A SIGNAL IN A  
SIGNAL SLOT SUBJECT TO A DISCONTINUOUS INTERFERENCE SIGNAL

ABSTRACT OF THE DISCLOSURE

Methods and systems are provided for processing a received signal including receiving the signal to provide a sequence of symbols associated with the received signal in respective ones of a plurality of symbol positions. A known block of the sequence of symbols containing known symbol values and an unknown block of the sequence of symbols containing unknown symbol values are identified. A desired demodulation type is determined for use in demodulating the unknown block based on the known symbol values. An interferer signal characteristic discontinuity location in the unknown block is detected. The unknown block is demodulated using a first selected demodulation type between the interferer signal characteristic discontinuity and the known block and a second selected demodulation type on another portion of the unknown block, the first selected demodulation type and the second selected demodulation type being selected based on the determined desired demodulation type for use in demodulating the unknown block and the detected interferer signal characteristic discontinuity.

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